	Application No.	Applicant(s)
Notice of Allowability *	09/533,032	GRASSO ET AL.
Nouse of Anomabinity	Examiner	Art Unit
	McDieunel Marc	3661
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included
1. This communication is responsive to 4/5/2004.		
2. X The allowed claim(s) is/are <u>1,2,4-11 and 13-18</u> .	•	
3. The drawings filed on 22 March 2002 are accepted by the E	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	
3. ☐ Copies of the certified copies of the priority documents have		
International Bureau (PCT Rule 17.2(a)).	difficities flave been received in this i	lational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submining. INFORMAL PATENT APPLICATION (PTO-152) which give considered by the Notice of Draftsperson (a) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date [Identifying indicial such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the considered Examiner's comment regarding REQUIREMENT FROM STANDARD CONTRACTION.	ENT of this application. Itted. Note the attached EXAMINER' is reason(s) why the oath or declarate the submitted. It be submitted. It is Patent Drawing Review (PTO-Statement / Comment or in the Owner of the drawing the submitted of the s	S AMENDMENT or NOTICE OF tion is deficient. 948) attached ffice action of the back) of a continuous be submitted. Note the
Attachment(s)		
1. Notice of References Cited (PTO-892)	_	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (Paper No./Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	3), 7. Examiner's Amendm	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance
of Biological Material	9. Other	THOMAS G. BLACK DUISORY PATENT EXAMINER

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Allowable Subject Matter

- 1. Claims 1, 2, 4-11 and 13-18 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach or fairly suggest with respect to claim 1, a data cartridge handling system comprising: a data cartridge storage array having a plurality of bins each for removably receiving and storing a data cartridge; a robotic manipulator operatively positioned for selectively retrieving data cartridges from the bins, transferring the retrieved data cartridges to and from a data reading and recording device and replacing data cartridges into the bins in accordance with instructions received from a control system operatively coupled to the robotic manipulator for directing movement of the manipulator, the manipulator including a grasping hand for grasping a selected data cartridge and moving the data cartridge in and out of a bin and a camera mounted on the hand for sensing the location of the hand with reference to each of the plurality of bins, wherein the camera is operated during an audit operation initiated by the control system to provide bin location data to a memory subsequently utilized by the control system to position the grasping hand of the robotic manipulator, and wherein the camera includes an oscillator located on the hand whose output is selectively provided to enable the camera during an audit operation.; with respect to claim 8, a data cartridge handling library apparatus having reduced electromagnetic radiation emissions comprising: a plurality of data cartridge storage bins arranged around a robotic

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manipulator for retrieving and replacing cartridges from and to the bins; a camera mounted on the manipulator for sensing a position of the manipulator with respect to the plurality of data cartridge storage bins, the camera being operable during an audit operation to identify each bin location; a manipulator control system operatively coupled to the robotic manipulator for selectively controlling movement of the manipulator and operating the camera to sense and record manipulator position information at each bin location and store position and bin location information in a memory accessible by the manipulator control a grasping hand on the manipulator having the camera mounted thereon, the camera having an oscillator having an output enabled by the control system, wherein the control system disables the output of the oscillator and performs data cartridge storage and retrieval operations utilizing the bin location and manipulator position information stored in the memory during normal library operations: and; with respect to claim 14, a method for reducing electromagnetic radiation emissions from a data cartridge handling library apparatus comprising the steps of: providing a plurality of data cartridge storage bins arranged around a robotic manipulator for retrieving and replacing cartridges from and to the bins providing a manipulator control system operatively coupled to the robotic manipulator for selectively controlling movement of the manipulator; providing a camera mounted on the manipulator for sensing a position of the manipulator with respect to the plurality of data cartridge storage bins; turning on the camera; performing an audit operation using the camera to identify each bin

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location, record manipulator position information at each bin location and store bin location information in a memory accessible by the manipulator control system; turning the camera off, and then performing subsequent data cartridge storage and retrieval operations utilizing the bin location and manipulator position information stored in the memory to position the manipulator with the camera off; and with respect to claim 17, a method for reducing electromagnetic radiation emissions from a data cartridge handling library apparatus comprising the steps of: providing a plurality of data cartridge storage bins arranged around a robotic manipulator for retrieving and replacing cartridges from and to the bins providing a manipulator control system operatively coupled to the robotic manipulator for selectively controlling movement of the manipulator; providing a camera mounted on the manipulator for sensing a position of the manipulator with respect to the plurality of data cartridge storage bins; operating the camera during an audit operation to identify a bin location, record manipulator position information at the bin location and store bin location information in a memory accessible by the manipulator control system: and turning the camera oft and then performing subsequent data cartridge storage and retrieval operations utilizing the bin location and manipulator position information stored in the memory position the manipulator with the camera off, in combination with the other elements and features of the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to McDieunel Marc whose telephone number is (703) 305-4478. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

McDieune Marc

05/12/2004

MM/

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